



**DEPARTMENT OF PUBLIC UTILITIES**

**Stormwater Management Program Annual Report (SWMPAR)  
May 25, 2004**

**Coverage Under General SPDES Permit No. GP-02-02  
MS4 Name: City of Troy  
MS4 County: Rensselaer  
NYSDEC Region: 4  
MS4 SPDES No.: NYR20A379**

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## EXECUTIVE SUMMARY

On December 8, 1999, the U.S. Environmental Protection Agency (EPA) published the Storm Water Phase II Rule. The rule requires operators (City of Troy) of small Municipal Separate Storm Sewer Systems (MS4) in urbanized areas to develop and implement a Stormwater Management Program (SWMP). The New York State Department of Environmental Conservation (NYS DEC) adopted this federal rule, and has developed two general permits, one for urbanized areas and one for construction activities disturbing one or more acres. The NYS DEC permit for MS4's, which became effective January 8, 2003, is part of the State Pollutant Discharge Elimination Program (SPDES).

This report shall cover activities completed up to March 10<sup>th</sup> of 2004. In March 2003, the City of Troy developed a Stormwater Management Program to comply with the MS4 regulation. Upon submission of the Notice of Intent (NOI) to DEC, the City was granted coverage under the General SPDES permit.

The City's SWMP has the following primary objectives:

- Educate public on stormwater pollution
- Detect & eliminate illicit discharges
- Control construction site runoff
- Coordinate pollution prevention measures in to City operations via the Six Minimum Control Measures

Implementing the SWMP will have the desired effect of improving the water quality of large bodied waters such as the Hudson River.

Since March 2003, the City has been involved with Rensselaer County and other municipalities to implement the SWMP. In September 2003, the City jointly applied with East Greenbush, Brunswick, Poestenkill, Nassau, Schodack, Schaghticoke, and Rensselaer County for a grant from DEC to aid in funding the SWMP. As of date, Rensselaer County and the City have not received a response from DEC on the status of the grant.

In March 2004, the City attended the meeting with Rensselaer County and surrounding municipalities to discuss and plan activities for community outreach and education for the upcoming year. A public stormwater management workshop given by the Capital District Regional Planning Commission has been plan for mid-April 2004. Rensselaer County will provide to the City links to websites with good information of stormwater management, which the City will add the links to the Department website for public access. Rensselaer County and the City also discussed having a training video available for construction site operators to learn about runoff control.

The public meeting for presenting the City SWMP was held on May 5, 2004 at City Hall. Public comments and response are located in **Appendix A**.

# STORMWATER MANAGEMENT PROGRAM ANNUAL REPORT

## SIX MINIMUM MEASURES SECTION

March 10, 2003 – March 9, 2004

Municipality Name City of Troy Department of Public Utilities SPDES Number NYR20A379

### MINIMUM MEASURE 1: Public Education and Outreach in Stormwater Impacts

**A. Narrative Overview:** The City of Troy will plan and conduct public education and outreach on stormwater issues. Public education and outreach will be accomplished by posting informational/educational brochures relating to stormwater impacts on the City homepage. These educational brochures will also be distributed via utility bill insert or in conjunction with the City's Annual Water Quality Report (AWQR). Brochures will include: lawn & garden care, pet waste management, pollution management for businesses and trash/hazardous material disposal management.

<b>B. Implementation of Best Management Practices</b>			<b>C. Activities Planned for Upcoming Year</b>
Type in the management practices selected in your NOI and any additional ones that you worked on.	Any done in the past year?		Describe SWMP activities that are planned for the next year and changes to selected management practices/measurable goals.
	YES	NO	
<b>TECHNIQUES</b>			
Plan and conduct an ongoing public education and outreach program (required)	X		A section for the Department of Public Utilities has been setup on the City website. Electronic copies of the educational brochure have been obtained from the EPA. The City's Bureau of Information Services will be posting those on the City website under the Dept. of Public Utilities.  The City will explore opportunities to send such brochures along with utility bills or 2004 Annual Water Quality Report.

**MINIMUM MEASURE 2: Public Involvement/Participation**

**A. Narrative Overview:** The City of Troy will promote public involvement and participation by providing educational brochures and annual report onsite at the Department of Public Utilities for public access. Public presentation of SWMPAR will occur every May to allow for public comment. The City will work with other municipalities and Rensselaer County to hold a stormwater workshop open to the public.

<b>B. Implementation of Best Management Practices</b>			<b>C. Activities Planned for Upcoming Year</b>
Type in the management practices selected in your NOI and any additional ones that you worked on.	Any done in the past year?		Describe SWMP activities that are planned for the next year and changes to selected management practices/measurable goals.
	YES	NO	
<b>TECHNIQUES</b>			
Public notice and access to documents and information (required)	X		Public notice for annual report presentation made available via press release and website announcement. Access to annual report & educational brochures available at City of Troy Department of Public Utilities.
Public presentation and comments received on SWMP and annual report (required)	X		Public presentation of the City's SWMP conducted on May 5, 2004. Comments received were incorporated into annual report. See <b>Appendix A</b>
Public involvement/participation program(required)	X		Public stormwater workshop held on April 20, 2004 at HVCC. Topic: construction impacts on water quality
Contact person identified (required)	X		Contact person(s) identified: Neil Bonesteel – Chief Water Plant Operator Loc Truong – Public Utilities Engineer
			N/A

### **MINIMUM MEASURE 3: Illicit Discharge Detection and Elimination**

**A. Narrative Overview:** The City of Troy will develop a program to detect and eliminate illicit discharges. Outfall mapping will be conducting using GPS devices in collaboration with Rensselaer County. Prohibition of illicit discharge has been included in the DPU Rules and Regulation. The public will be informed of hazards from illicit discharge through public meetings, hearings, workshops, and educational materials (brochures). The City will include a plan to identify illicit discharges in the local area.

<b>B. Implementation of Best Management Practices</b>			<b>C. Activities Planned for Upcoming Year</b>
Type in the management practices selected in your NOI and any additional ones that you worked on.	Any done in the past year?		Describe SWMP activities that are planned for the next year and changes to selected management practices/measurable goals.
	YES	NO	
<b>ACTIVITIES</b>			
Outfall mapping (required)		X	Rensselaer County has agreed to download information from GPS units for mapping. The City will await status of grant.
Illicit discharges prohibited (required)	X		
Public, employees, businesses informed of hazards from illicit discharges (required)	X		
Illicit discharges identified (required)		X	The City will develop a plan to identify the types of illicit discharges in local area.

#### **MINIMUM MEASURE 4: Construction Site Stormwater Runoff Control**

**A. Narrative Overview:** The City of Troy will review, develop and implement a program to control construction site stormwater runoff. Measures include developing written legislation to require erosion and sedimentation control at construction sites. In addition, developing written legislation to require construction site waste management. The City will continue to provide to the public the opportunity for comments on construction plans. The City will continue its practices in construction site inspections and enforcement. The City in conjunction with Rensselaer County officials will also conduct training for the construction site operators.

<b>B. Implementation of Best Management Practices</b>			<b>C. Activities Planned for Upcoming Year</b>
Type in the management practices selected in your NOI and any additional ones that you worked on.	Any done in the past year?		Describe SWMP activities that are planned for the next year and changes to selected management practices/measurable goals.
	YES	NO	
<b>REQUIREMENTS</b>			
Require erosion and sedimentation controls through an ordinance or other regulatory mechanism (required)	X		Currently, the City does not have written ordinances or regulations for sedimentation controls at construction sites. However, during review of construction plans, the planning board/engineer does seek to ensure the contractor has included erosion control measures in construction plans.
Provide opportunity for public comment on construction plans (required)	X		Over the next several years, the City will develop written legislations to require erosion and sedimentation control in construction plans.
Require construction site plan review (required)	X		The City of Troy currently provides the public with the opportunity to comment on construction plans.
Require overall construction site waste management (required)	X		The City planning board along with engineering currently reviews construction plans.
	X		Currently, the City does not have written ordinances or regulations for waste management at construction sites. However, during review of construction plans, the planning board/engineer does seek to ensure the contractor has included waste management measures in construction plans.
			Over the next several years, the City will develop written legislations to require construction site waste management.

<b>B. Implementation of Best Management Practices</b>			<b>C. Activities Planned for Upcoming Year</b>
Type in the management practices selected in your NOI and any additional ones that you worked on.	Any done in the past year?		Describe SWMP activities that are planned for the next year and changes to selected management practices/measurable goals.
	YES	NO	
Site inspection and enforcement (required)	X		The City's code enforcement conducts site inspections and enforcement.
Education and training of construction site operators (required)		X	The City along with Rensselaer County and other municipalities will conduct training for construction site operators.



### **MINIMUM MEASURE 5: Post-Construction Stormwater Management**

**A. Narrative Overview:** The City of Troy will develop a program to address post construction site runoff. The City has identified structural and non-structural BMP's to reduce pollutant discharge. These BMP's will be included in the City's written legislation to help aid in controlling construction site runoff. Site inspections will occur indefinitely.

<b>B. Implementation of Best Management Practices</b>			<b>C. Activities Planned for Upcoming Year</b>
Type in the management practices selected in your NOI and any additional ones that you worked on.	Any done in the past year?		Describe SWMP activities that are planned for the next year and changes to selected management practices/measurable goals.
	YES	NO	
<b>REQUIREMENTS</b>			
Assess existing conditions throughout the MS4 and identify appropriate management practices to reduce pollutant discharge to the maximum extent practicable (required)	X		The City has identified appropriate BMP's to reduce pollutant discharge for post-construction sites. BMP's include silt fencing, construction phasing, vegetative buffering, storm drain inlet protection, and locations of soil stockpiles.
Regulate post-construction runoff from development through an ordinance or other regulatory mechanism (required)		X	Currently there are no written ordinances to regulate post construction runoff. Code enforcement through inspection ensures that post-construction site runoff does not occur.
Develop management practice inspection and maintenance program (required)	X		Inspections conducted by code enforcement are currently in place. However, during the development of the ordinance, the City will review inspection/maintenance procedures to ensure it meets requirements to regulate post construction runoff.

**MINIMUM MEASURE 6: Pollution Prevention/Good Housekeeping**

**A. Narrative Overview:** The City of Troy will conduct pollution prevention measures through the continual municipal operations, which include street cleaning/flushing, catch basin inspection/cleaning, spill response/prevention and City-wide recycling program. The City will use NYSDEC NPS Management Practices catalog as a guide for pollution prevention measures. The City will also investigate municipal operations such as storage of road salt, soil, fertilizers, and chemicals to address any discharge of such materials.

<b>B. Implementation of Best Management Practices</b>			<b>C. Activities Planned for Upcoming Year</b>
Type in the management practices selected in your NOI and any additional ones that you worked on.	Any done in the past year?		Describe SWMP activities that are planned for the next year and changes to selected management practices/measurable goals.
	YES	NO	
<b>REQUIREMENTS</b>			
Prevent discharge of pollutants from municipal operations (required)	X		The City continually reviews municipal operations such as storage of road salt, topsoil, fertilizers, chemicals etc. to ensure proper pollution prevention measures are being taken.
Follow DEC NPS Management Practices catalog, or equivalent (required)	X		The City will use DEC's NPS Management Practices Catalog as a guide for pollution prevention measures.
Conduct employee pollution prevention training (required)	X		The City conducts safety training for employees/operators, which includes spill prevention, chemical storage and handling, etc.

**SECTION VI. Monitoring and Modeling Results**

NO DATA

**SECTION VIII. Summary of Funding and Use of Grant Money**

The City and Rensselaer County along with surrounding municipalities have jointly applied for grant funding from DEC. However, as of date, the City has not received notification of award.

## APPENDIX A

### Minutes from Public Meeting/SWMP Presentation

On May 5, 2004, 2:00 PM, Neil Bonesteel, CWPO, and Loc Truong, Public Utilities Engineer, presented the Stormwater Management Program (SWMP) for the City of Troy at City Hall.

Presentation included the following topics:

- Stormwater runoff
- Pollutants associated with stormwater runoff
- Effects of stormwater runoff
- Objective of SWMP
- Overview of Six Minimum Control Measures

See **APPENDIX B** for copy of presentation.

Comments/Questions.

1. Does the NYSDEC have a template for which the City could use to develop written legislation to require sedimentation and erosion control at construction sites? *The Department of Public Utilities will contact DEC to determine if such template/sample exist.*
2. Sediment and erosion control measures should be included as an item for code enforcement officers/building inspectors to look for during inspections. *The City will review current regulations for code enforcement/building inspectors to see if it makes sense to add additional items to look for during inspections.*
3. What is the duration of the SWMP. *The City's SWMP has been developed and will be fully implemented by the 2008 deadline.*

## **APPENDIX B**

### **Public Presentation of SWMP**









## **APPENDIX C**

### **Cooperating MS4 Letter of Intent**